

ABSTRACT

A method and apparatus for selecting an optimal set of antennas from a plurality of antennas for use by a transmitter and/or receiver having a plurality of RF chains to transmit and/or receive a wireless signal on a wireless link. According to the invention information concerning transmission of wireless signals on the wireless link is determined and an optimal set of antennas from the plurality of antennas is selected based on the information. Thereafter, the RF chains are connected to the optimal set of antennas to permit transmission and/or reception of the wireless signal from the RF chains on the wireless link via the optimal set of antennas. The RF chains correspond in number to the number of antennas in the optimal set of antennas, and the number of antennas included in the plurality of antennas is greater than the number of RF chains.